# Data Sources and Collection at the Office of Health Care Statistics



## Office of Health Care Statistics

Our office is responsible for collecting and analyzing several types of data.

- Health Care Facilities Database
  - Inpatient discharge data since 1992
  - Emergency Department encounter data since 1996
  - Ambulatory surgery data since 1996
- Health Plan Performance Data
  - Health Effectiveness Data and Information Set (HEDIS)
  - Consumer Assessment of Healthcare Providers and Systems (CAHPS)
- All Payer Claims Database (APCD)



## Health Care Facilities Database

#### **Data Submission**

- Required of all licensed inpatient, emergency departments, and ambulatory surgery centers in Utah.
- Current format a rectangular, pipe-delimited file.
- Tremendous amount of duplication, but easy-to-use.
- Submitted on a monthly basis for any hospital with an ED.
- Submitted on a quarterly basis otherwise.
- Processed by a vendor—Mercer.



## Health Care Facilities Database

#### **Processed Data**

- Raw data available 45 days after end-of-month (for most IP/ED).
- Raw data available 45 days after end-of-quarter (some IP/AS).
- Processed into a relational database on a yearly basis (summer).



Header_Key (int) Encounter_Type (char(1))			
Diagnosis_Version_Flag (smallint)			
Header_Key (int)			
Record ID (bigint)			
		English M2	
Diagnosis_version_Flag (smallint)			
ICD Doortoo IC	Harder V2		
		Federal_Tax_Sub_ID (char(3))	
		Facility_Name (varchar(75))	
Encounter_Type (char(1))	Record_ID (bigint)		
Record_ID (bigint)	Encounter_Type (char(1))		
	Facility Number (int)		
		Facility_Zip_Code (varchar(11))	
ICD_Procedure_Date (date)			
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		Patient_Key (int)	
	Admission_Hour (int)	Patient_Medical_Record_Number_Scrambled (varchar(24))	
	Admission_Minute (int)		
Record_ID (bigint)			
		Patient_Name_First (varchar(128))	
	Statement_Beginning_Date (date)	Patient_Name_Middle (varchar(128))	
		Patient Name Suffix (varchar(128))	
DRG_Return_Code (tinyint)			
Initial_4digit_DRG (char(4))			
	Condition_Code_6 (char(2))	Patient_Country (varchar(3))	
Hospital_Acquired_Conditions (tinyint)	Condition_Code_7 (char(2))		
Hospital_Acquired_Condition_Status (tinyint)	Condition_Code_8 (char(2))		
Cost_Weight (float)			
Revenue_V7			
		Patient_Ethnicity (varchar(6))	
Header_Key (int)	Total_Charge_Header (money)	Patient_County_FIPS (varchar(5))	
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# All Payer Claims Database

Data are collected monthly by a vendor from:

- Insurance carriers with 2,500 or more Utah covered lives.
- Medicaid fee for service.
- Pharmacy Benefit Managers (PBMs).
- Stand-alone dental insurance carriers.

Data are processed and enhanced semi-annually and a relational database backup is submitted to OHCS.

Office of Health Care Statistics

P.S. Now have Medicare Part A & B from 2008-2016.

# All Payer Claims Database

#### APCD v1.0

Medical claims, pharmacy claims, and member eligibility data since 2008.

#### APCD v2.0

- Began collecting a medical provider file in 2013.
- Dental claims required beginning in 2015.
- Pilot for collecting uninsured claims from community health clinics began in 2016.



## Claims Data

Eligibility files includes data necessary to link a person's records across time and health insurance carriers:

 Patient name, identification numbers, address, birth date, race, ethnicity, employer, plan details, and eligibility dates.

Medical claims (institutional, professional, and dental)

 Diagnoses, procedures, units, dates of services, provider (billing and servicing), charge amounts, and paid amounts.



#### Claims Data

#### Pharmacy claims

 Drug codes (NDC), drug names, dates written and filled, compound drug indicator, units, generic drug indicator, provider (prescribing and pharmacy), refill, charge amounts, and paid amounts.

#### Provider file

Health care provider name, identification numbers, and address.



# All Payer Claims Database

#### So... what's inside?



- Over 4 million members and over 3 million persons.
  - o 97% of Medicaid members and claims
  - Approximately 70% of commercial insurance members and claims.
  - Unfortunately, Supreme Court decided on March 1, 2016 that carriers/administrators cannot be required to submit employers' self-funded data, which makes up about 35% of the commercial market according to the Utah Insurance Department.
  - Approximately 66% of Medicare Advantage members and claims.
  - Medicare Part A & B from 2008-2016
- About 40 million medical claims and 40 million pharmacy claims annually.
- Entire database is approximately 1.5 TB.

# Data Submission Guides/User Manual



#### Data Submission Guide (DSG)

- https://gitlab.com/UtahOHCS/APCD\_DSG
- http://stats.health.utah.gov/wp-content/uploads/2019/05/Utah-HFD\_2018\_DS
   G v2.1 20190506 FINAL.pdf

#### Data User Manuals (DUM)

- https://gitlab.com/UtahOHCS/APCD\_DUM/
- https://gitlab.com/UtahOHCS/HFD\_DUM

## **Available Data Sets**

How do we get this valuable resource into the hands of brilliant minds such as yourselves?

- Limited-use data sets
  - Claims-centric
  - Patient-centric
- Research data sets
- Sample data sets
- University of Utah's institutional license
- IBIS



# Available Data Sets, cont.

How do we get this valuable resource into the hands of brilliant minds such as yourselves?

- Determine needed variables.
  - See user manuals in previous slide.
- Contact Mike Martin < mikemartin@utah.gov >
- Fill out <u>Internal Data Use Agreement/Confidentiality Pledge</u>.
- Receive IRB approval (if needed).

OR

Use <u>IBIS-PH</u> for simple queries. Or ask OHCS analytic staff.



#### Resources

**OHCS** website

**IBIS-PH** 

Utah Office of Health Care Statistics / Utah APCD Data Submission Guide

UTAH HEALTHCARE FACILITY DATA SUBMISSION GUIDE

**APCD Data User Manual** 

Healthcare Facilities Database Data User Manual

sterlingpetersen@utah.gov

